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Datasheet for ABIN3080116 Fibrillarin Protein (FBL) (AA 1-321) (Strep Tag)



Overview

Image

Quantity:	1 mg
Target:	Fibrillarin (FBL)
Protein Characteristics:	AA 1-321
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Fibrillarin protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence:	MKPGFSPRGG GFGGRGGFGD RGGRGGRGGF GGGRGGGGF RGRGRGGGGG GGGGGGGG
	GGGFHSGGNR GRGRGGKRGN QSGKNVMVEP HRHEGVFICR GKEDALVTKN LVPGESVYGE
	KRVSISEGDD KIEYRAWNPF RSKLAAAILG GVDQIHIKPG AKVLYLGAAS GTTVSHVSDI
	VGPDGLVYAV EFSHRSGRDL INLAKKRTNI IPVIEDARHP HKYRMLIAMV DVIFADVAQP
	DQTRIVALNA HTFLRNGGHF VISIKANCID STASAEAVFA SEVKKMQQEN MKPQEQLTLE
	PYERDHAVVV GVYRPPPKVK N
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	system, a different complexity of the protein could make another tag necessary. In case you
	have a special request, please contact us.
Characteristics:	Key Benefits:
	Made in Germany - from design to production - by highly experienced protein experts.
	Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure

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- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein. The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System
	(ALICE®):
	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
	2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade
Target Details	
Target:	Fibrillarin (FBL)
Alternative Name:	FBL (FBL Products)
Background:	RRNA 2'-O-methyltransferase fibrillarin (EC 2.1.1) (34 kDa nucleolar scleroderma antigen)
	(Histone-glutamine methyltransferase) (U6 snRNA 2'-O-methyltransferase
	fibrillarin),FUNCTION: S-adenosyl-L-methionine-dependent methyltransferase that has the
	ability to methylate both RNAs and proteins (PubMed:24352239, PubMed:30540930,
	PubMed:32017898). Involved in pre-rRNA processing by catalyzing the site-specific 2'-hydroxyl
	methylation of ribose moieties in pre-ribosomal RNA (PubMed:30540930). Site specificity is
	provided by a guide RNA that base pairs with the substrate (By similarity). Methylation occurs
	at a characteristic distance from the sequence involved in base pairing with the guide RNA (By
	similarity). Probably catalyzes 2'-O-methylation of U6 snRNAs in box C/D RNP complexes
	(PubMed:32017898). U6 snRNA 2'-O-methylation is required for mRNA splicing fidelity
	(PubMed:32017898). Also acts as a protein methyltransferase by mediating methylation of 'Glr
	105' of histone H2A (H2AQ104me), a modification that impairs binding of the FACT complex
	and is specifically present at 35S ribosomal DNA locus (PubMed:24352239,
	PubMed:30540930). Part of the small subunit (SSU) processome, first precursor of the small
	eukaryotic ribosomal subunit. During the assembly of the SSU processome in the nucleolus,
	many ribosome biogenesis factors, an RNA chaperone and ribosomal proteins associate with
	the nascent pre-rRNA and work in concert to generate RNA folding, modifications,
	rearrangements and cleavage as well as targeted degradation of pre-ribosomal RNA by the
	RNA exosome (PubMed:34516797). {ECO:0000250 UniProtKB:P15646,
	ECO:0000269 PubMed:24352239, ECO:0000269 PubMed:30540930,
	ECO:0000269 PubMed:32017898, ECO:0000269 PubMed:34516797}.
Molecular Weight:	33.8 kDa
UniProt:	P22087
Pathways:	Ribonucleoside Biosynthetic Process
Application Details	
	In addition to the applications listed above we expect the protein to work for functional studies

Application Notes:

In addition to the applications listed above we expect the protein to work for functional studies

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Application Details		
	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.	
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce	
	even the most difficult-to-express proteins, including those that require post-translational modifications.	
	During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the	
	mitochondria to drive the reaction. During our lysate completion steps, the additional	
	components needed for protein production (amino acids, cofactors, etc.) are added to produce	
	something that functions like a cell, but without the constraints of a living system - all that's	
	needed is the DNA that codes for the desired protein!	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request,	
	please contact us.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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